

=====

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2007; month=11; day=19; hr=16; min=45; sec=24; ms=289;
]

=====

Application No: 10517256 Version No: 1.0

Input Set:

Output Set:

Started: 2007-11-19 15:52:58.957
Finished: 2007-11-19 15:52:59.631
Elapsed: 0 hr(s) 0 min(s) 0 sec(s) 674 ms
Total Warnings: 4
Total Errors: 0
No. of SeqIDs Defined: 9
Actual SeqID Count: 9

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)

SEQUENCE LISTING

<110> GRAHAM, GARRY GEORGE
DONG, QIHAN

<120> METHOD OF INHIBITING PROSTATE CANCER CELL PROLIFERATION

<130> 47-216

<140> 10517256

<141> 2007-11-19

<150> PCT/AU03/00719

<151> 2003-06-10

<150> AU PS 2826

<151> 2002-06-07

<160> 9

<170> PatentIn Ver. 3.3

<210> 1

<211> 997

<212> DNA

<213> Homo sapiens

<400> 1

```
gaaggaaaaa gagcaacaga tccagggagc attcacctgc cctgtctcca aacagccttg 60
tgcctcacct acccccaacc tcccagaggg agcagctatt taaggggagc aggagtgcag 120
aacaaacaag acggcctggg gatacaactc tggagtcctc tgagagagcc accaaggagg 180
agcagggggag cgacggcccg ggcagaagtt gagaccacc agcagaggag ctaggccagt 240
ccatctgcat ttgtcaccca agaactctta ccatgaagac cctcctactg ttggcagtga 300
tcatgatctt tggcctactg caggcccatg ggaatttggg gaatttccac agaatgatca 360
agttgacgac aggaaaggaa gccgcactca gttatggctt ctacggctgc cactgtggcg 420
tgggtggcag aggatcccc aaggatgcaa cggatcgctg ctgtgtcact catgactgtt 480
gctacaaacg tctggagaaa cgtggatgtg gcaccaaatt tctgagctac aagtttagca 540
actcggggag cagaatcacc tgtgcaaac aggactcctg cagaagtcaa ctgtgtgagt 600
gtgataaggc tgctgccacc tgttttgcta gaaacaagac gacctacaat aaaaagtacc 660
agtactattc caataaacac tgcagaggga gcacccctcg ttgtctgagtc ccctcttccc 720
tggaacacct ccaccagtg ctgaatttcc ctctctcata ccctccctcc ctaccctaac 780
caagttcctt ggccatgcag aaagcatccc tcacccatcc tagaggccag gcaggagccc 840
ttctataccc acccagaatg agacatccag cagatttcca gccttctact gctctctccc 900
acctcaactc cgtgcttaac caaagaagct gtactccggg gggtctcttc tgaataaagc 960
aattagcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa 997
```

<210> 2

<211> 2875

<212> DNA

<213> Homo sapiens

<400> 2

```
gaattctccg gagctgaaaa aggatcctga ctgaaagcta gaggcattga ggagcctgaa 60
gattctcagg ttttaaagac gctagagtgc caaagaagac tttgaagtgt gaaaacattt 120
cctgtaattg aaaccaaatt gtcatttata gatccttacc agcacattat agtggagcac 180
```

```

cagtattccc acaagtttac ggtagtggtg ttacgtgcc acaaagtgac aaagggggcc 240
tttggtgaca tgcttgatac tccagatccc tatgtggaac tttttatctc tacaaccct 300
gacagcagga agagaacaag acatttcaat aatgacataa accctgtgtg gaatgagacc 360
tttgaattta ttttgatcc taatcaggaa aatgttttg agattacgtt aatggatgcc 420
aattatgtca tggatgaaac tctagggaca gcaacattta ctgtatcttc tatgaagggtg 480
ggagaaaaga aagaagttcc ttttattttc aaccaagtca ctgaaatggg tctagaaatg 540
tctcttgaag tttgtcatg cccagacctc cgatttagta tggctctgtg tgatcaggag 600
aagactttca gacaacagag aaaagaacac ataagggaga gcatgaagaa actcttgggt 660
ccaaagaata gtgaaggatt gcattctgca cgtgatgtgc ctgtggtagc catattgggt 720
tcagggtggg gtttccgagc catggtggga ttctctggtg tgatgaaggc attatacgaa 780
tcagggaattc tggattgtgc tacctacgtt gctggctctt ctggctccac ctggtatatg 840
tcaaccttgt attctcacc tgaattttcca gagaaggggc cagaggagat taatgaagaa 900
ctaataaaaa atggttagcca caatccccct ttacttctca caccacagaa agttaaaaga 960
tatgttgagt ctttatggaa gaagaaaagc tctggacaac ctgtcacctt tactgacatc 1020
tttgggatgt taataggaga aacactaatt cataatagaa tgaatactac tctgagcagt 1080
ttgaaggaaa aagttaatac tgcacaatgc cctttacctc ttttcacctg tcttcatgtc 1140
aaacctgacg tttcagagct gatgtttgca gattgggttg aatttagtcc atacgaaatt 1200
ggcatggcta aatatggtac ttttatggct cccgacttat ttggaagcaa attttttatg 1260
ggaacagtcg ttaagaagta tgaagaaaac cccttgcat tcttaatggg tgtctggggc 1320
agtgcctttt ccatattgtt caacagagtt ttgggcgttt ctggttcaca aagcagaggc 1380
tccacaatgg aggaagaatt agaaaatatt accacaaagc atattgtgag taatgatagc 1440
tcggacagtg atgatgaatc acacgaacct aaaggcactg aaaaagaaga tgctggaagt 1500
gactatcaaa gtgataatca agcaagttgg attcatcgta tgataatggc cttggtgagt 1560
gattcagctt tattcaatac cagagaagga cgtgctggga aggtacacaa cttcatgctg 1620
ggcttgaatc tcaatacatc ttatccactg tctcctttga gtgactttgc cacacaggac 1680
tcctttgatg atgatgaact ggatgcagct gtacgagatc ctgatgaatt tgagcgaata 1740
tatgagcctc tggatgtcaa aagtaaaaaag attcatgtag tggacagtgg gctcacattt 1800
aacctgccgt atcccttgat actgagacct cagagagggg ttgatctcat aatctcctt 1860
gacttttctg caaggccaag tgactctagt cctccgttca aggaacttct acttgacaga 1920
aagtgggcta aatgaacaa gctccccctt ccaaagattg atccttatgt gtttgatcgg 1980
gaagggctga aggagtgcta tgtcttttaa ccaagaatc ctgatatgga gaaagattgc 2040
ccaaccatca tccactttgt tctggccaac atcaacttca gaaagtacaa ggctccaggt 2100
gttccaaggg aaactgagga agagaaagaa atcgctgact ttgatatttt tgatgacca 2160
gaatcaccat tttcaacctt caattttcaa tatccaaatc aagcattcaa aagactacat 2220
gatcttatgc acttcaatac tctgaacaac attgatgtga taaaagaagc catggttgaa 2280
agcattgaat atagaagaca gaatccatct cgttgctctg tttcccttag taatgttgag 2340
gcaagaagat ttttcaacaa ggagtttcta agtaaaccca aagcatagtt catgtactgg 2400
aaatggcagc agtttctgat gctgaggcag tttgcaatcc catgacaact ggatttaaaa 2460
gtacagtaca gatagtcgta ctgatcatga gagactggct gatactcaa gttgcagtta 2520
cttagctgca tgagaataat actattataa gttaggtgac aaatgatgtt gattatgtaa 2580
ggatatactt agctacattt tcagtcahta tgaacttct gatacaaatg tagggatata 2640
tactgtattt ttaaacattt ctcaccaact ttcttatgtg tgttcttttt aaaaattttt 2700
tttcttttaa aatatttaac agttcaatct caataagacc tcgcattatg tatgaatgtt 2760
attcactgac tagattttatt cataccatga gacaacacta tttttattta tatatgcata 2820
tatatacata catgaaataa atacatcaat ataaaaataa aaaaaaacgg aattc 2875

```

<210> 3

<211> 144

<212> PRT

<213> Homo sapiens

<400> 3

Met Lys Thr Leu Leu Leu Leu Ala Val Ile Met Ile Phe Gly Leu Leu

1

5

10

15

Gln Ala His Gly Asn Leu Val Asn Phe His Arg Met Ile Lys Leu Thr

20

25

30

Thr Gly Lys Glu Ala Ala Leu Ser Tyr Gly Phe Tyr Gly Cys His Cys
 35 40 45

Gly Val Gly Gly Arg Gly Ser Pro Lys Asp Ala Thr Asp Arg Cys Cys
 50 55 60

Val Thr His Asp Cys Cys Tyr Lys Arg Leu Glu Lys Arg Gly Cys Gly
 65 70 75 80

Thr Lys Phe Leu Ser Tyr Lys Phe Ser Asn Ser Gly Ser Arg Ile Thr
 85 90 95

Cys Ala Lys Gln Asp Ser Cys Arg Ser Gln Leu Cys Glu Cys Asp Lys
 100 105 110

Ala Ala Ala Thr Cys Phe Ala Arg Asn Lys Thr Thr Tyr Asn Lys Lys
 115 120 125

Tyr Gln Tyr Tyr Ser Asn Lys His Cys Arg Gly Ser Thr Pro Arg Cys
 130 135 140

<210> 4

<211> 749

<212> PRT

<213> Homo sapiens

<400> 4

Met Ser Phe Ile Asp Pro Tyr Gln His Ile Ile Val Glu His Gln Tyr
 1 5 10 15

Ser His Lys Phe Thr Val Val Val Leu Arg Ala Thr Lys Val Thr Lys
 20 25 30

Gly Ala Phe Gly Asp Met Leu Asp Thr Pro Asp Pro Tyr Val Glu Leu
 35 40 45

Phe Ile Ser Thr Thr Pro Asp Ser Arg Lys Arg Thr Arg His Phe Asn
 50 55 60

Asn Asp Ile Asn Pro Val Trp Asn Glu Thr Phe Glu Phe Ile Leu Asp
 65 70 75 80

Pro Asn Gln Glu Asn Val Leu Glu Ile Thr Leu Met Asp Ala Asn Tyr
 85 90 95

Val Met Asp Glu Thr Leu Gly Thr Ala Thr Phe Thr Val Ser Ser Met
 100 105 110

Lys Val Gly Glu Lys Lys Glu Val Pro Phe Ile Phe Asn Gln Val Thr
 115 120 125

Glu Met Val Leu Glu Met Ser Leu Glu Val Cys Ser Cys Pro Asp Leu
 130 135 140

Arg Phe Ser Met Ala Leu Cys Asp Gln Glu Lys Thr Phe Arg Gln Gln			
145	150	155	160
Arg Lys Glu His Ile Arg Glu Ser Met Lys Lys Leu Leu Gly Pro Lys			
	165	170	175
Asn Ser Glu Gly Leu His Ser Ala Arg Asp Val Pro Val Val Ala Ile			
	180	185	190
Leu Gly Ser Gly Gly Gly Phe Arg Ala Met Val Gly Phe Ser Gly Val			
	195	200	205
Met Lys Ala Leu Tyr Glu Ser Gly Ile Leu Asp Cys Ala Thr Tyr Val			
	210	215	220
Ala Gly Leu Ser Gly Ser Thr Trp Tyr Met Ser Thr Leu Tyr Ser His			
225	230	235	240
Pro Asp Phe Pro Glu Lys Gly Pro Glu Glu Ile Asn Glu Glu Leu Met			
	245	250	255
Lys Asn Val Ser His Asn Pro Leu Leu Leu Thr Pro Gln Lys Val			
	260	265	270
Lys Arg Tyr Val Glu Ser Leu Trp Lys Lys Lys Ser Ser Gly Gln Pro			
	275	280	285
Val Thr Phe Thr Asp Ile Phe Gly Met Leu Ile Gly Glu Thr Leu Ile			
	290	295	300
His Asn Arg Met Asn Thr Thr Leu Ser Ser Leu Lys Glu Lys Val Asn			
305	310	315	320
Thr Ala Gln Cys Pro Leu Pro Leu Phe Thr Cys Leu His Val Lys Pro			
	325	330	335
Asp Val Ser Glu Leu Met Phe Ala Asp Trp Val Glu Phe Ser Pro Tyr			
	340	345	350
Glu Ile Gly Met Ala Lys Tyr Gly Thr Phe Met Ala Pro Asp Leu Phe			
	355	360	365
Gly Ser Lys Phe Phe Met Gly Thr Val Val Lys Lys Tyr Glu Glu Asn			
	370	375	380
Pro Leu His Phe Leu Met Gly Val Trp Gly Ser Ala Phe Ser Ile Leu			
385	390	395	400
Phe Asn Arg Val Leu Gly Val Ser Gly Ser Gln Ser Arg Gly Ser Thr			
	405	410	415
Met Glu Glu Glu Leu Glu Asn Ile Thr Thr Lys His Ile Val Ser Asn			
	420	425	430
Asp Ser Ser Asp Ser Asp Asp Glu Ser His Glu Pro Lys Gly Thr Glu			
	435	440	445

Asn	Glu	Asp	Ala	Gly	Ser	Asp	Tyr	Gln	Ser	Asp	Asn	Gln	Ala	Ser	Trp	450	455	460	
Ile	His	Arg	Met	Ile	Met	Ala	Leu	Val	Ser	Asp	Ser	Ala	Leu	Phe	Asn	465	470	475	480
Thr	Arg	Glu	Gly	Arg	Ala	Gly	Lys	Val	His	Asn	Phe	Met	Leu	Gly	Leu	485	490	495	
Asn	Leu	Asn	Thr	Ser	Tyr	Pro	Leu	Ser	Pro	Leu	Ser	Asp	Phe	Ala	Thr	500	505	510	
Gln	Asp	Ser	Phe	Asp	Asp	Asp	Glu	Leu	Asp	Ala	Ala	Val	Ala	Asp	Pro	515	520	525	
Asp	Glu	Phe	Glu	Arg	Ile	Tyr	Glu	Pro	Leu	Asp	Val	Lys	Ser	Lys	Lys	530	535	540	
Ile	His	Val	Val	Asp	Ser	Gly	Leu	Thr	Phe	Asn	Leu	Pro	Tyr	Pro	Leu	545	550	555	560
Ile	Leu	Arg	Pro	Gln	Arg	Gly	Val	Asp	Leu	Ile	Ile	Ser	Phe	Asp	Phe	565	570	575	
Ser	Ala	Arg	Pro	Ser	Asp	Ser	Ser	Pro	Pro	Phe	Lys	Glu	Leu	Leu	Leu	580	585	590	
Ala	Glu	Lys	Trp	Ala	Lys	Met	Asn	Lys	Leu	Pro	Phe	Pro	Lys	Ile	Asp	595	600	605	
Pro	Tyr	Val	Phe	Asp	Arg	Glu	Gly	Leu	Lys	Glu	Cys	Tyr	Val	Phe	Lys	610	615	620	
Pro	Lys	Asn	Pro	Asp	Met	Glu	Lys	Asp	Cys	Pro	Thr	Ile	Ile	His	Phe	625	630	635	640
Val	Leu	Ala	Asn	Ile	Asn	Phe	Arg	Lys	Tyr	Lys	Ala	Pro	Gly	Val	Pro	645	650	655	
Arg	Glu	Thr	Glu	Glu	Glu	Lys	Glu	Ile	Ala	Asp	Phe	Asp	Ile	Phe	Asp	660	665	670	
Asp	Pro	Glu	Ser	Pro	Phe	Ser	Thr	Phe	Asn	Phe	Gln	Tyr	Pro	Asn	Gln	675	680	685	
Ala	Phe	Lys	Arg	Leu	His	Asp	Leu	Met	His	Phe	Asn	Thr	Leu	Asn	Asn	690	695	700	
Ile	Asp	Val	Ile	Lys	Glu	Ala	Met	Val	Glu	Ser	Ile	Glu	Tyr	Arg	Arg	705	710	715	720
Gln	Asn	Pro	Ser	Arg	Cys	Ser	Val	Ser	Leu	Ser	Asn	Val	Glu	Ala	Arg	725	730	735	
Arg	Phe	Phe	Asn	Lys	Glu	Phe	Leu	Ser	Lys	Pro	Lys	Ala	740	745					

<210> 5
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 5
Phe Leu Ser Tyr Lys
1 5

<210> 6
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 6
Phe Leu Ser Tyr Arg
1 5

<210> 7
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 7
tttgtcaccc aagaactctt ac 22

<210> 8
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 8
gggagggagg gtatgaga 18

<210> 9
<211> 18

<212> DNA

<213> Homo sapiens

<400> 9

gaggtaaattg gtattctc